Fig. 1
CARRIER BORNE ENERGY SPECTRUM

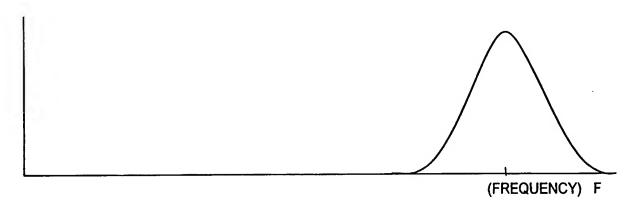
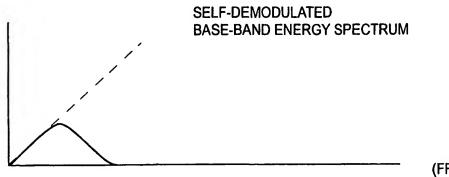
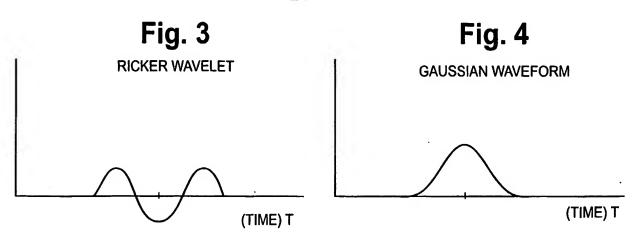


Fig. 2



(FREQUENCY) F



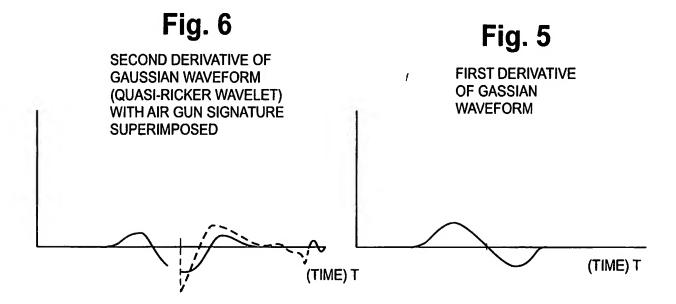


Fig. 7

PULSED CARRIER BORNE WAVEFORM
USED TO GENERATE QUASI-RICKER
WAVELET THROUGH NONLINEAR
SELF-DEMODULATING, FAR-FIELD INTERACTION

(TIME) T

Fig. 8

ENERGY SPECTRUM OF RICKER WAVELET

(FREQUENCY) F

Fig. 9

ENERGY SPECTRUM OF CARRIER-BORNE WAVEFORM USED TO GENERATE QUASI-RICKER WAVELET

(FREQUENCY) F

Fig. 10

ENERGY SPECTRUM OF QUASI-RICKER WAVELET WITH AIR-GUN ENERGY SPECTRUM SUPERIMPOSED

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Fig. 11
PREDISTORTED (I.E., FIRST-DERIVATIVE)
GAUSSIAN WAVEFORM PLUS DC OFFSET

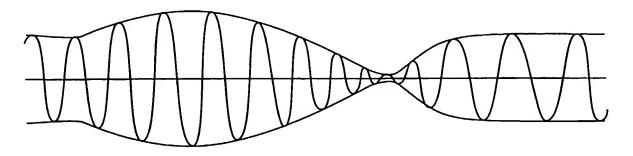


Fig. 12

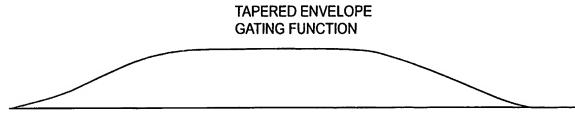


Fig. 13

COMPOSITE OF TAPERED GATING FUNCTION AND PREDISTORTED GAUSSIAN WAVEFORM

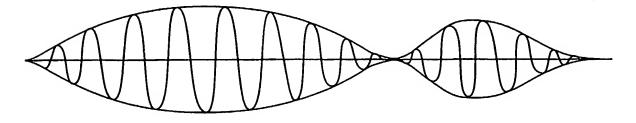
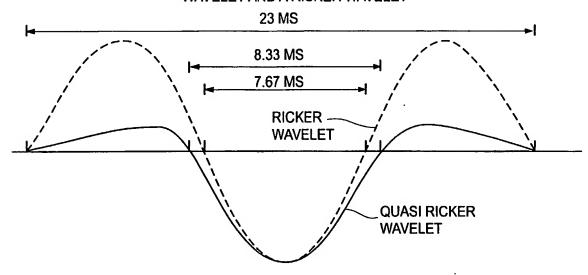
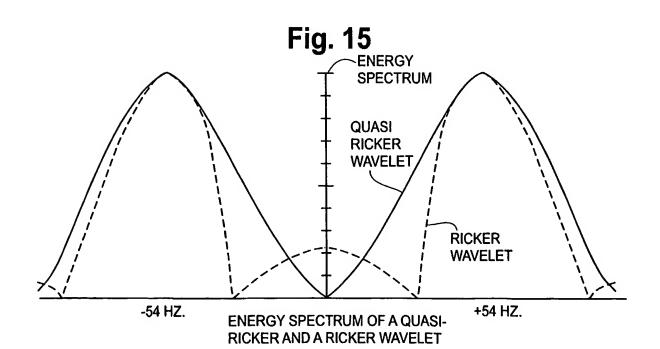


Fig. 14
TIME WAVEFORMS OF A QUASI-RICKER
WAVELET AND A RICKER WAVELET





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Fig. 16

TRANSMITTED WAVEFORM

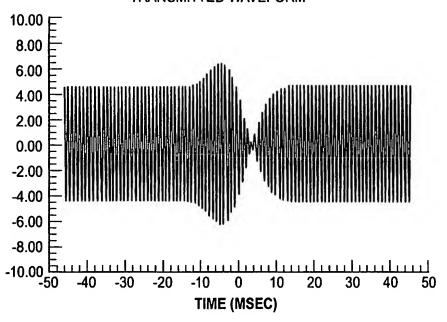
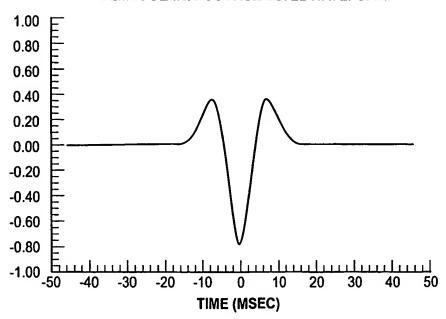


Fig. 17
DEMODULATED SOURCE LEVEL WAVEFORM



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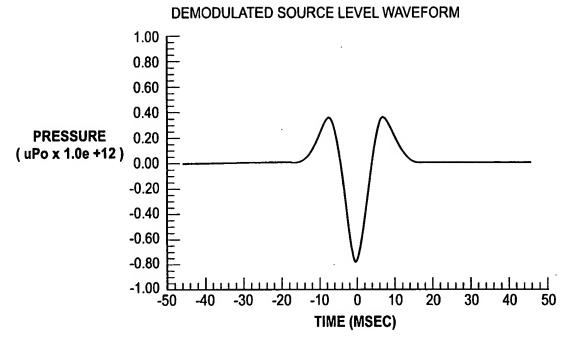
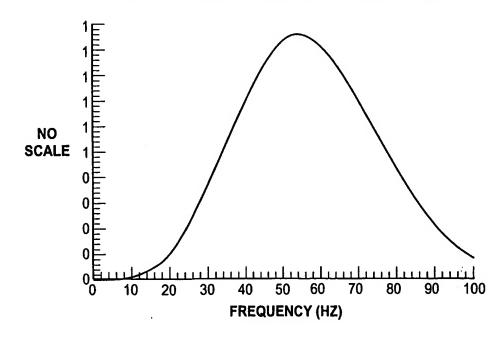


Fig. 19
VOLTAGE SPECTRUM OF DEMODULATED WAVEFORM



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Fig. 20 TRANSMITTED WAVEFORM

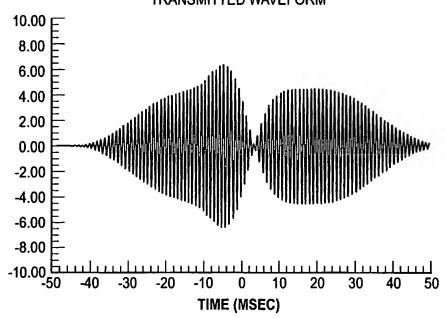
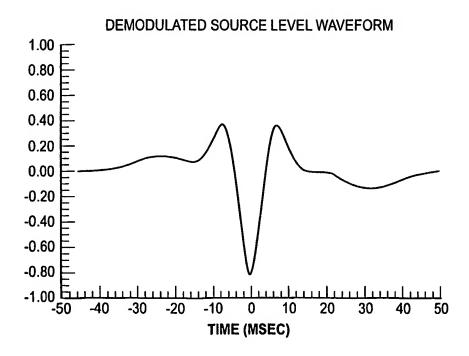


Fig. 21



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Fig. 22

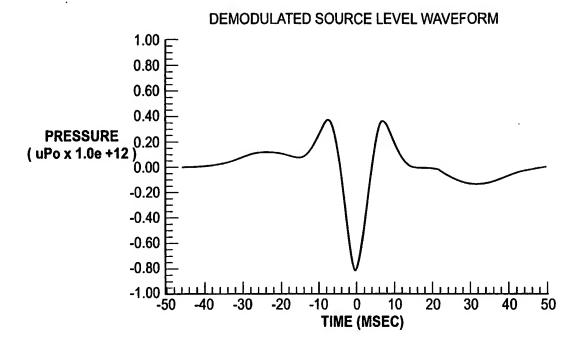


Fig. 23

**VOLTAGE SPECTRUM OF DEMODULATED WAVEFORM** 

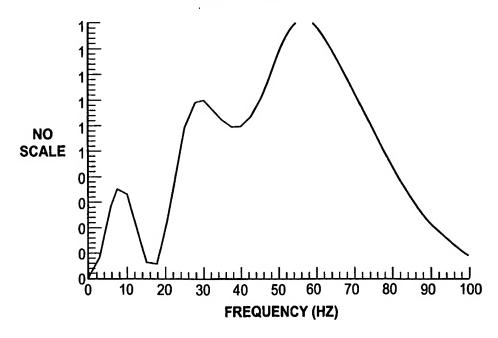
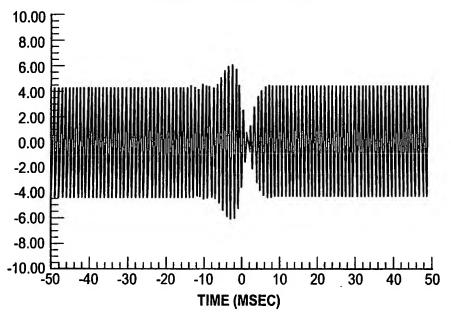


Fig. 24

## TRANSMITTED WAVEFORM



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Fig. 25

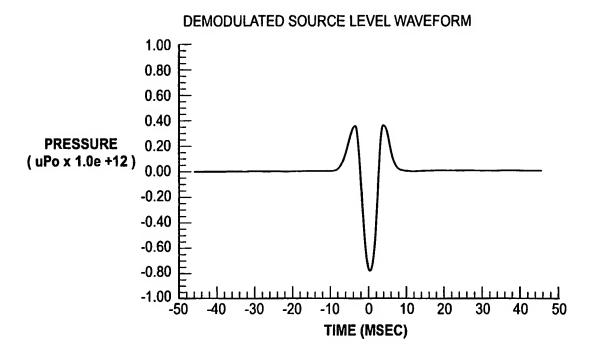
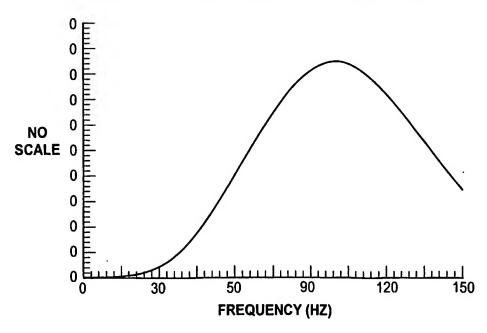
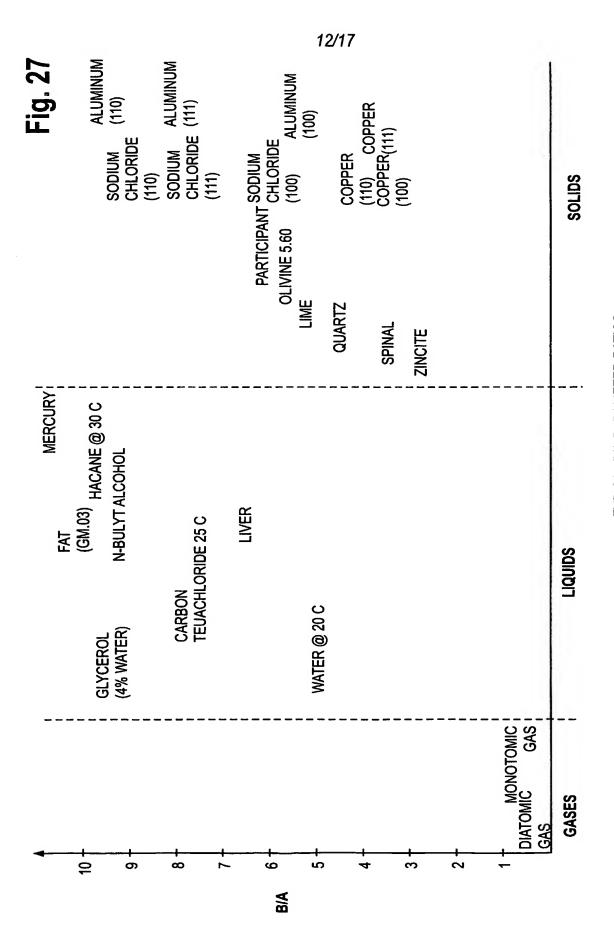


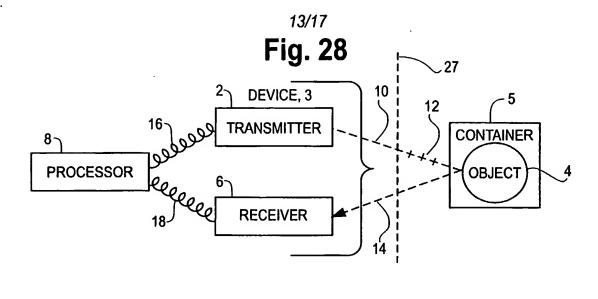
Fig. 26

VOLTAGE SPECTRUM OF DEMODULATED WAVEFORM





TYPICAL B/A-PARAMETER RATIOS FOR GASES, LIQUIDS AND SOLIDS



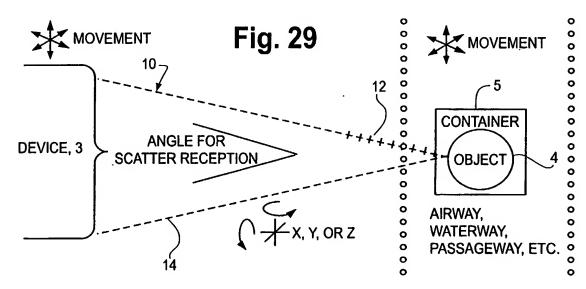
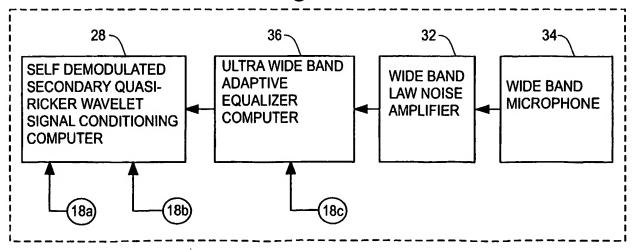


Fig. 30





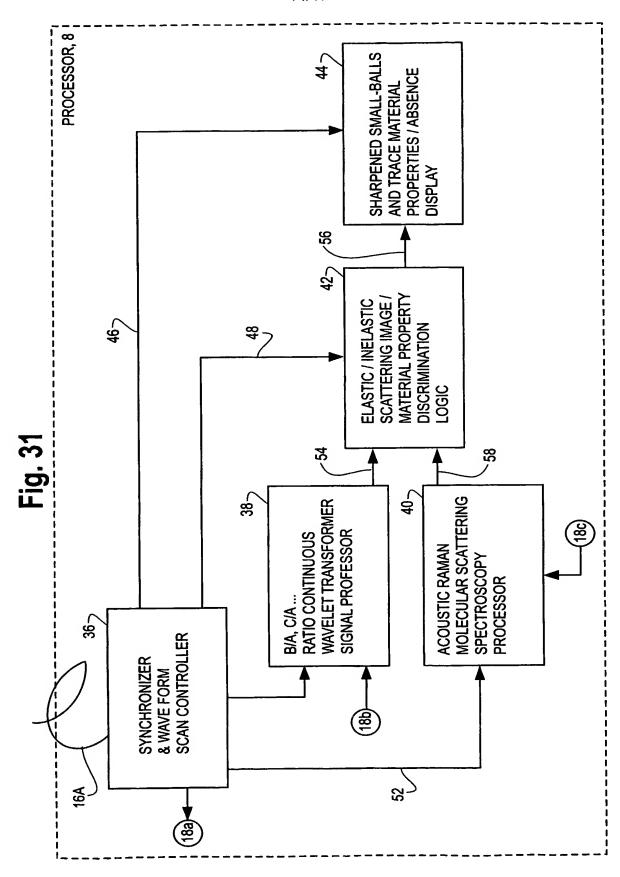
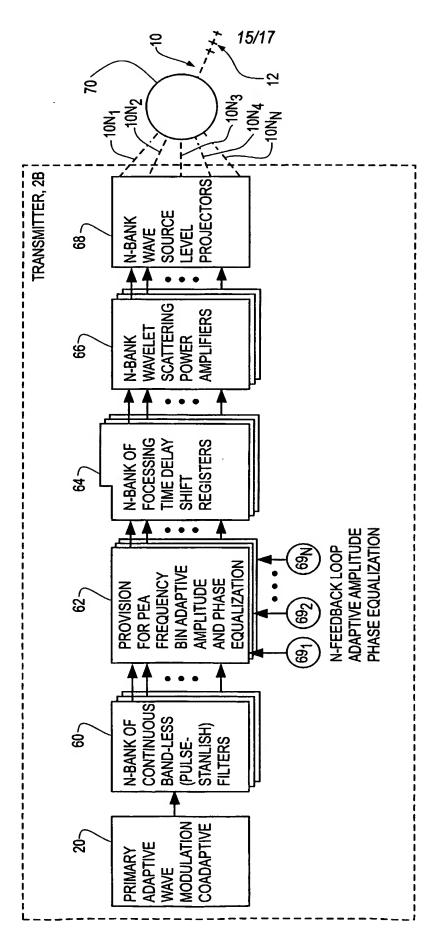


Fig. 32



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Fig. 33

FAR FIELD OF N-PROJECTOR ARRAY AND SECONDARY QUASI-RICKER WAVELET FAR-FIELD NLS / SD INTERASDIGN

